

scienze NASA



1
00:00:10,870 --> 00:00:08,230
space station meteor presented by

2
00:00:13,589 --> 00:00:10,880
science at nasa

3
00:00:15,190 --> 00:00:13,599
on august 12th and 13th earth passed

4
00:00:17,430 --> 00:00:15,200
through a stream of debris from comet

5
00:00:19,750 --> 00:00:17,440
swift tuttle source of the annual

6
00:00:21,670 --> 00:00:19,760
perseid meteor shower

7
00:00:23,590 --> 00:00:21,680
around the world millions of people

8
00:00:26,390 --> 00:00:23,600
watched bunches of bright and colorful

9
00:00:28,830 --> 00:00:26,400
perseids streak across the moonlit sky

10
00:00:31,509 --> 00:00:28,840
but only six people saw the shower from

11
00:00:33,990 --> 00:00:31,519
above high above earth's surface

12
00:00:36,150 --> 00:00:34,000
circling the planet at 17 000 miles per

13
00:00:38,470 --> 00:00:36,160

hour the crew of the international space

14

00:00:40,150 --> 00:00:38,480

station watched the shower too

15

00:00:42,790 --> 00:00:40,160

this is what a shooting star looks like

16

00:00:44,950 --> 00:00:42,800

from space tweeted expedition 28 flight

17

00:00:46,630 --> 00:00:44,960

engineer ron garan who photographed a

18

00:00:47,990 --> 00:00:46,640

bright perseid streaking beneath the

19

00:00:50,950 --> 00:00:48,000

space station

20

00:00:52,869 --> 00:00:50,960

at the time of the shot 1917 universal

21

00:00:55,110 --> 00:00:52,879

time on august 13th

22

00:00:57,189 --> 00:00:55,120

the iss was over china moving from the

23

00:00:58,869 --> 00:00:57,199

gobi desert near the mongolian border

24

00:01:00,389 --> 00:00:58,879

toward beijing

25

00:01:02,069 --> 00:01:00,399

this isn't the first time astronauts

26

00:01:04,229 --> 00:01:02,079

have seen and photographed meteors

27

00:01:06,310 --> 00:01:04,239

underfoot but this could be the most

28

00:01:08,390 --> 00:01:06,320

beautiful shot to date

29

00:01:09,990 --> 00:01:08,400

in my opinion this is the finest still

30

00:01:12,550 --> 00:01:10,000

image of a meteor from the international

31

00:01:14,950 --> 00:01:12,560

space station or any spacecraft says

32

00:01:16,550 --> 00:01:14,960

bill cook director of nasa's meteoroid

33

00:01:18,390 --> 00:01:16,560

environment office

34

00:01:20,710 --> 00:01:18,400

good catch ron

35

00:01:22,950 --> 00:01:20,720

cook has analyzed the image based on the

36

00:01:24,870 --> 00:01:22,960

meteor's apparent brightness he believes

37

00:01:26,950 --> 00:01:24,880

garen caught a nugget of comet debris

38

00:01:31,030 --> 00:01:26,960

about one centimeter in diameter hitting

39

00:01:33,190 --> 00:01:31,040

the atmosphere at 132 000 miles per hour

40

00:01:35,030 --> 00:01:33,200

the astronomical magnitude of the meteor

41

00:01:37,830 --> 00:01:35,040

was about negative three

42

00:01:39,590 --> 00:01:37,840

very nearly a fireball says cook

43

00:01:40,390 --> 00:01:39,600

other objects of interest in the photo

44

00:01:43,270 --> 00:01:40,400

include

45

00:01:45,270 --> 00:01:43,280

the orange giant star arcturus brightest

46

00:01:46,710 --> 00:01:45,280

member of the constellation boutes the

47

00:01:49,910 --> 00:01:46,720

herdsmen

48

00:01:51,910 --> 00:01:49,920

corona borealis the northern crown

49

00:01:53,910 --> 00:01:51,920

serpens the serpent

50

00:01:56,310 --> 00:01:53,920

solar panels of the international space

51
00:01:57,670 --> 00:01:56,320
station and a soyuz spacecraft docked to

52
00:01:59,990 --> 00:01:57,680
the space station

53
00:02:01,990 --> 00:02:00,000
a layer of green air glow

54
00:02:04,069 --> 00:02:02,000
air glow comes from atoms and molecules

55
00:02:06,469 --> 00:02:04,079
in earth's upper atmosphere which are

56
00:02:08,469 --> 00:02:06,479
excited by sunlight during the day

57
00:02:11,510 --> 00:02:08,479
at night they release their energy as a

58
00:02:13,110 --> 00:02:11,520
green band of light visible from orbit

59
00:02:15,190 --> 00:02:13,120
cook is convinced

60
00:02:17,670 --> 00:02:15,200
next year he says i want to watch the

61
00:02:19,190 --> 00:02:17,680
perseids from orbit too

62
00:02:20,710 --> 00:02:19,200
for more information about things you